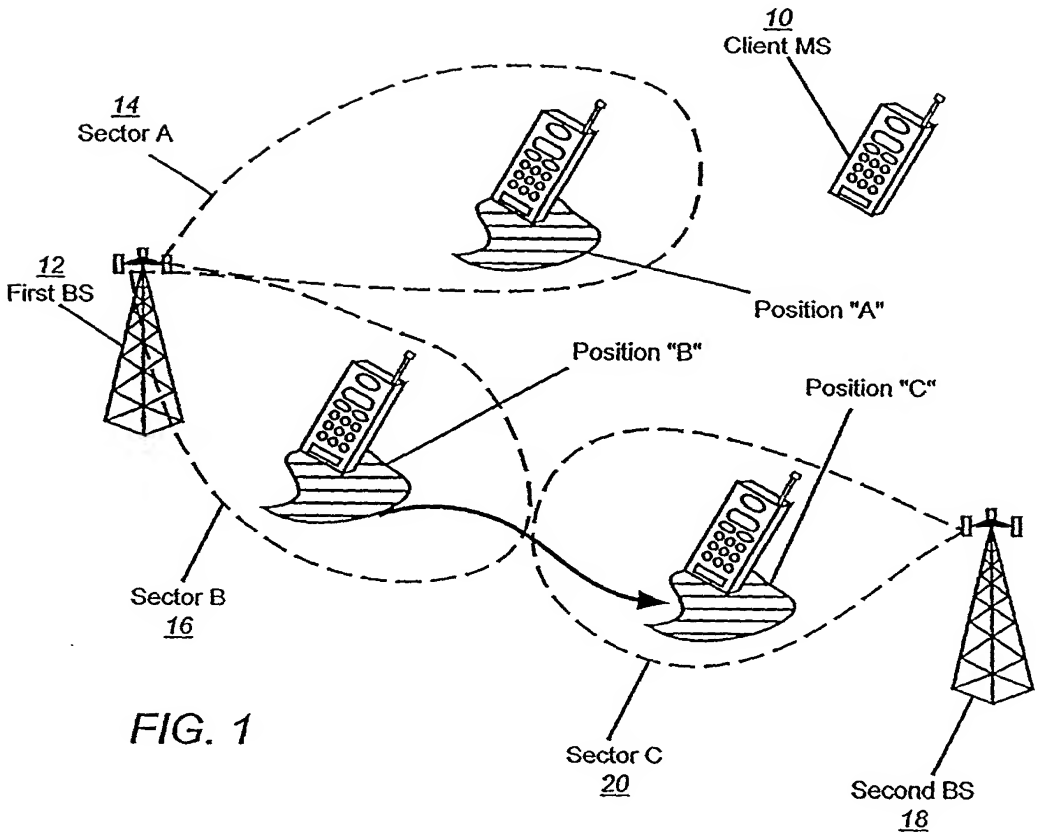
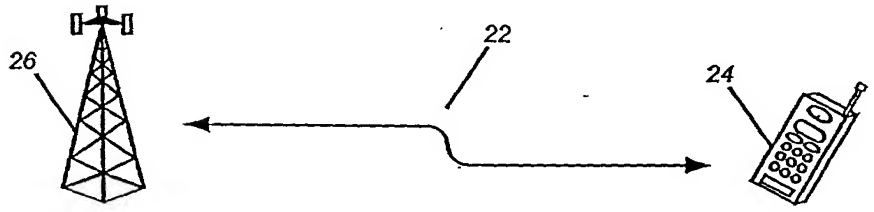


FIG. 1



Forward Link
- Pilot Channel(s)
- Sync Channel
- Paging Channel(s)
- Traffic Channels

Reverse Link
- Access Channel
- Traffic Channel(s)

FIG. 2

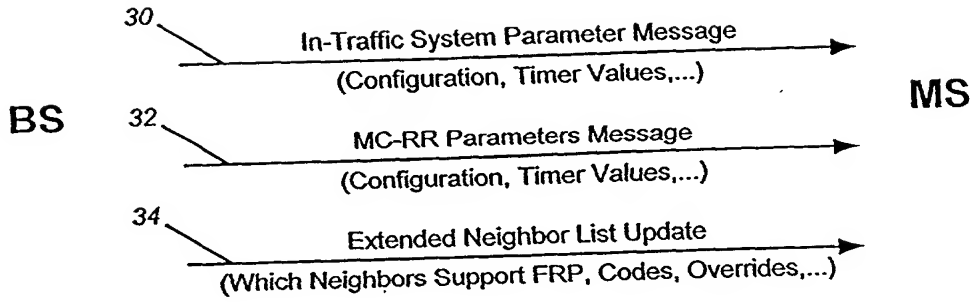

30
In-Traffic System Parameter Message
(Configuration, Timer Values,...)
BS
MS
32
MC-RR Parameters Message
(Configuration, Timer Values,...)
34
Extended Neighbor List Update
(Which Neighbors Support FRP, Codes, Overrides,...)

FIG. 3

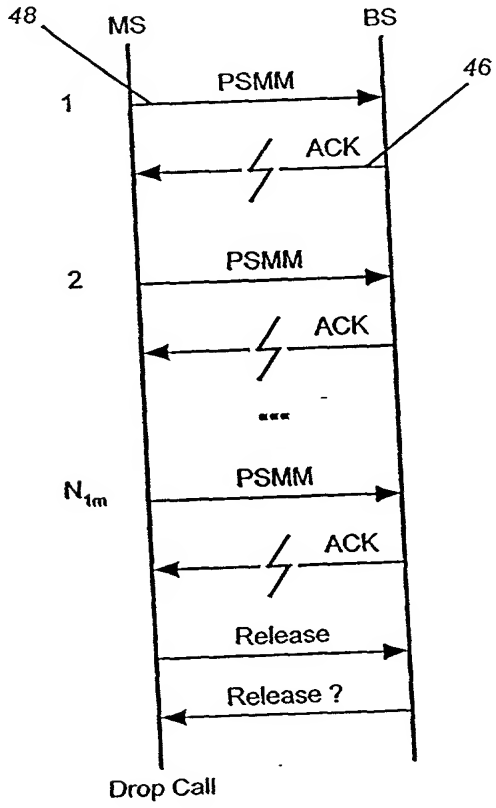

48
MS
BS
46
1
PSMM
ACK
2
PSMM
ACK
...
N_{1m}
PSMM
ACK
Release
Release ?
Drop Call

FIG. 5

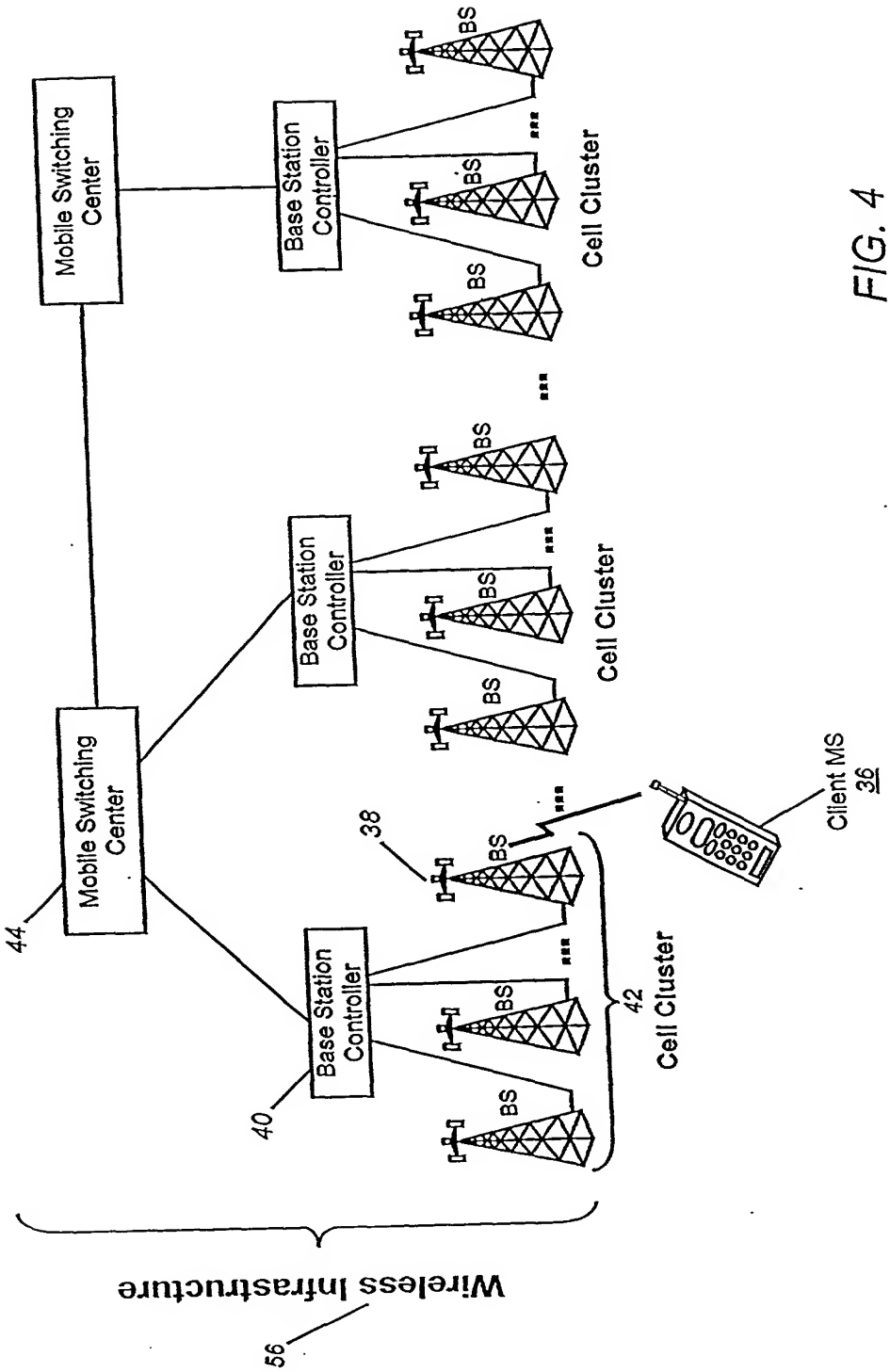

Mobile Switching Center
Mobile Switching Center
Base Station Controller
Base Station Controller
Base Station Controller
BS
Cell Cluster
Cell Cluster
Cell Cluster
Client MS
36
38
40
42
44
Wireless Infrastructure
56

FIG. 4

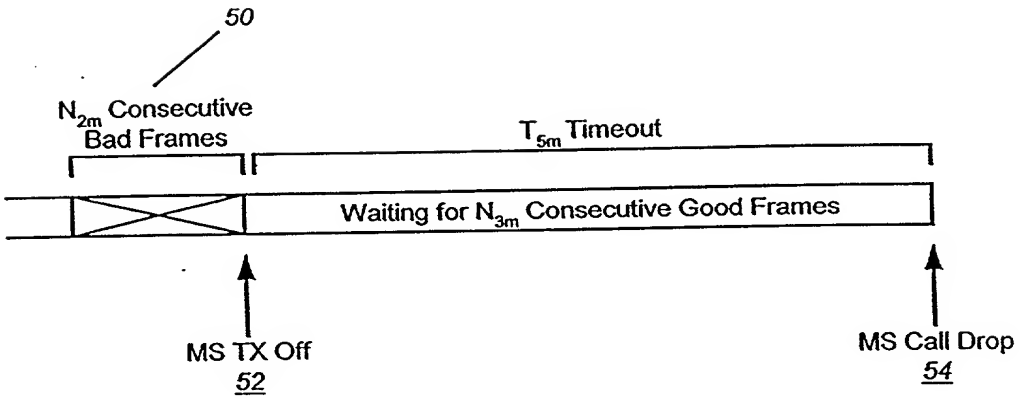

50
N_{2m} Consecutive Bad Frames
T_{5m} Timeout
Waiting for N_{3m} Consecutive Good Frames
MS TX Off
52
MS Call Drop
54

FIG. 6

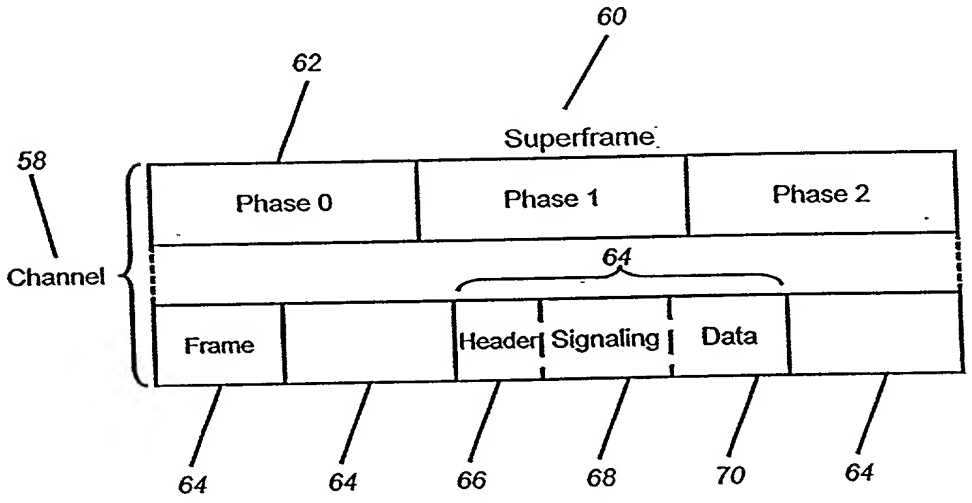

60
62
Superframe
58
Phase 0
Phase 1
Phase 2
Channel
64
Frame
Header
Signaling
Data
64
64
66
68
70
64

FIG. 7

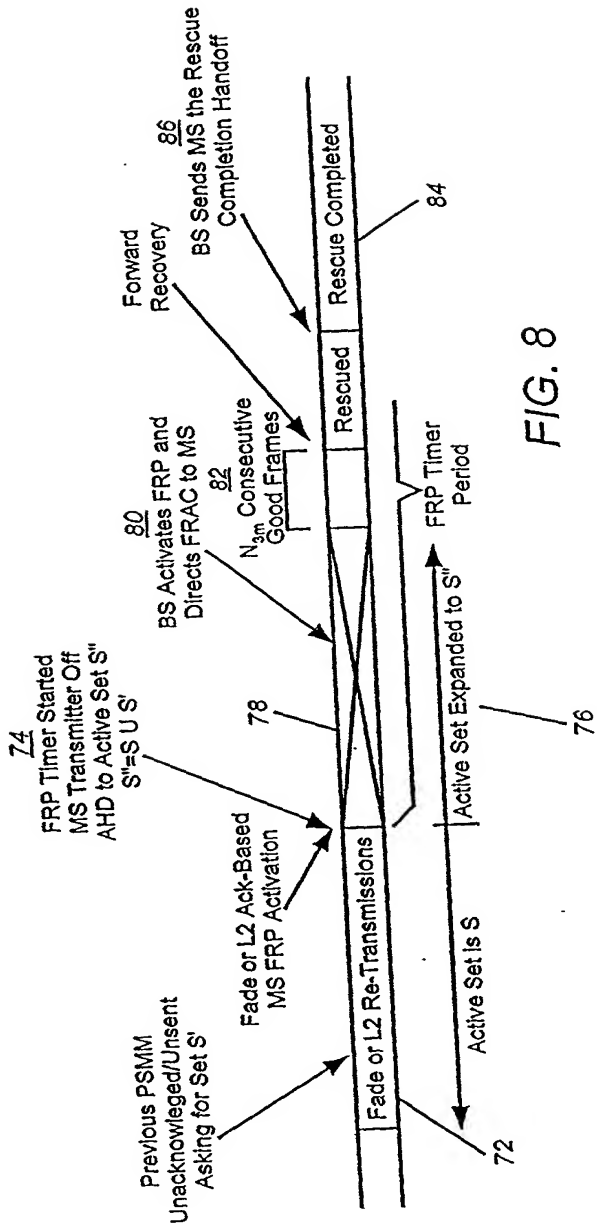

Previous PSMM Unacknowleged/Unsent Asking for Set S'
74
FRP Timer Started
MS Transmitter Off
AHD to Active Set S"
S"=S U S'
Fade or L2 Ack-Based MS FRP Activation
80
BS Activates FRP and Directs FRAC to MS
82
N_{3m} Consecutive Good Frames
Forward Recovery
86
BS Sends MS the Rescue Completion Handoff
Fade or L2 Re-Transmissions
Rescued
Rescue Completed
84
78
76
72
Active Set Is S
Active Set Expanded to S"
FRP Timer Period

FIG. 8

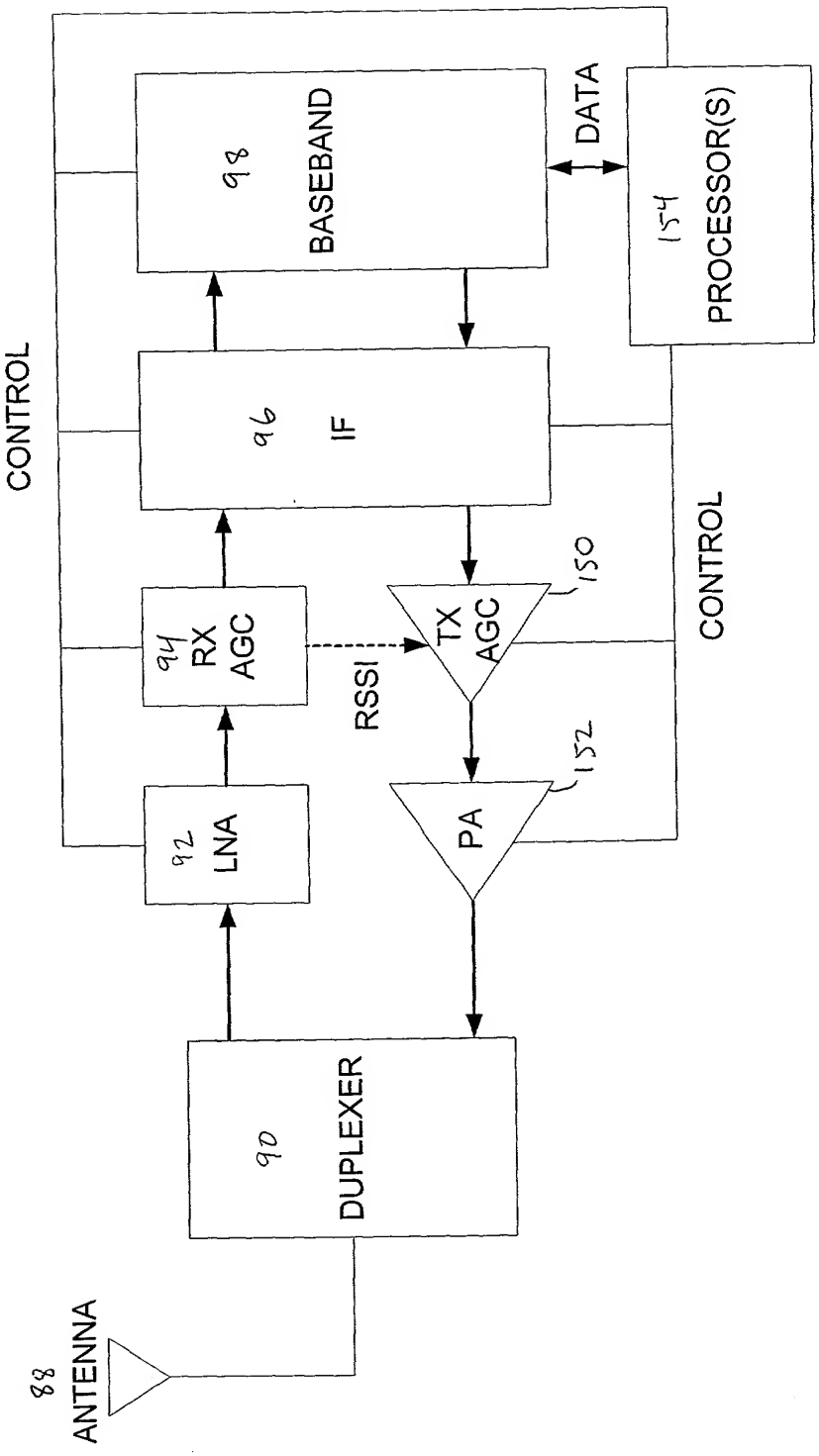

88
ANTENNA
90
DUPLEXER
92
LNA
94
RX
AGC
RSSI
TX
AGC
150
PA
152
96
IF
98
BASEBAND
DATA
154
PROCESSOR(S)
CONTROL
CONTROL

Figure 9

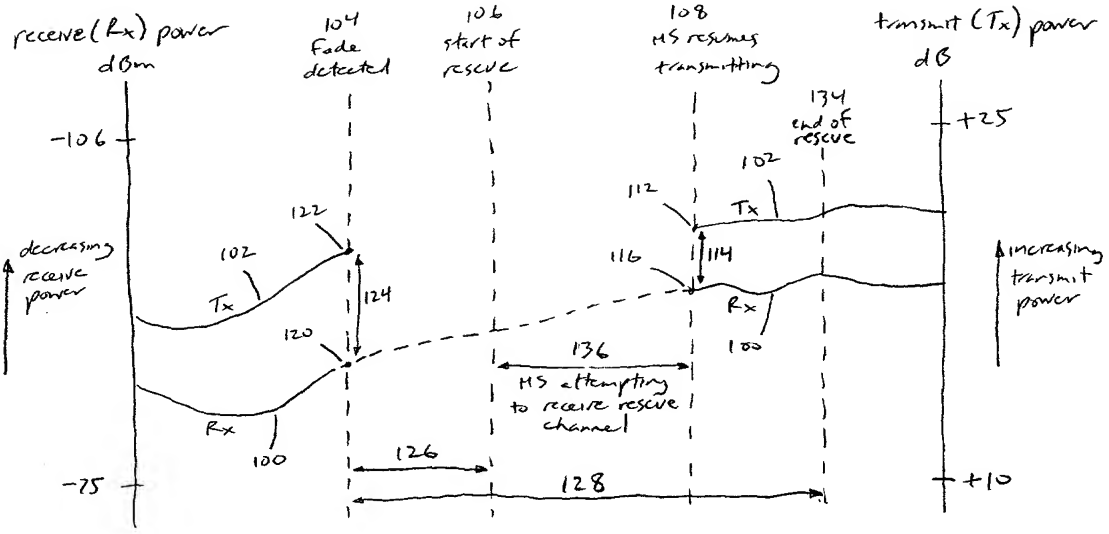


FIG. 10a
(Forward-based rescue)

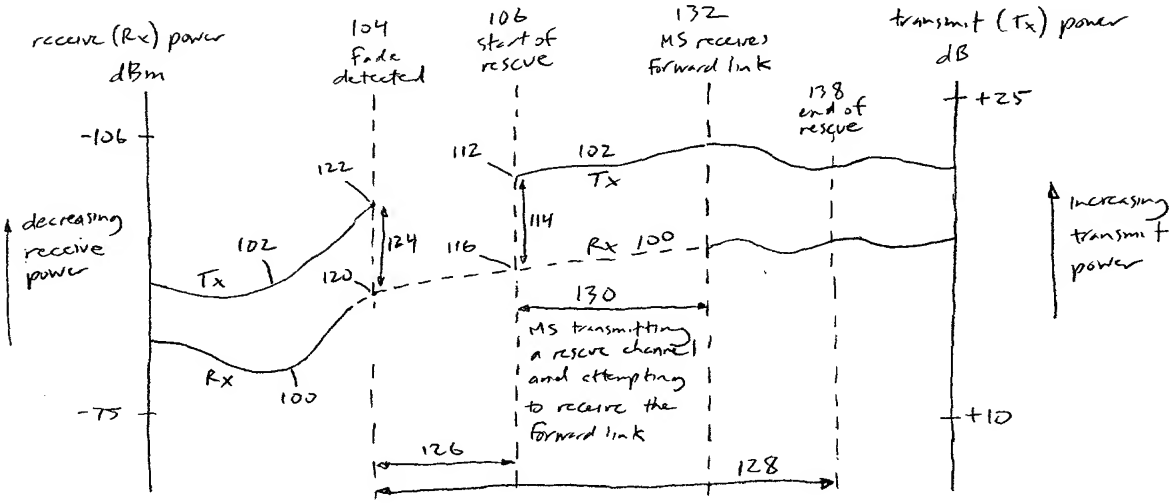


FIG. 10b
(Reverse-based rescue)

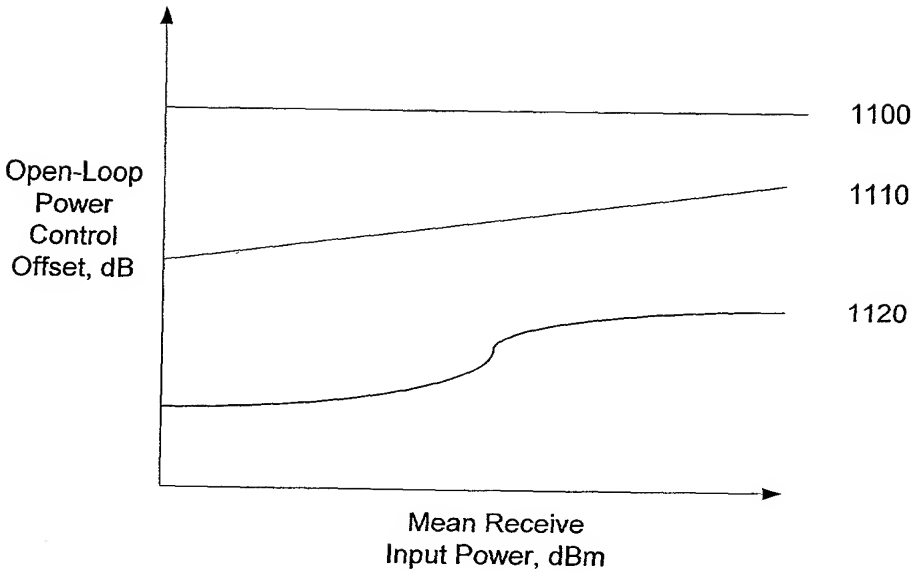

Open-Loop
Power
Control
Offset, dB
1100
1110
1120
Mean Receive
Input Power, dBm

Figure 11